



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
31.08.2011 Bulletin 2011/35

(51) Int Cl.:
G06F 21/00 (2006.01)

(43) Date of publication A2:
12.01.2011 Bulletin 2011/02

(21) Application number: **10165175.0**

(22) Date of filing: **08.06.2010**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR
Designated Extension States:
BA ME RS

(30) Priority: **24.06.2009 US 220096 P**

(71) Applicant: **Uniloc USA, Inc.**
Irvine, CA 92612 (US)

(72) Inventor: **Etchegoyen, Craig Stephen**
Irvine, CA 92612 (US)

(74) Representative: **Casbon, Paul Richard**
Lucas & Co,
135 Westhall Road
Warlingham, Surrey CR6 9HJ (GB)

(54) **Systems and methods for determining authorization to operate licensed software based on a client device fingerprint**

(57) Methods and systems disclosed herein may be used to determine if licensed software has been previously installed or used on a device by monitoring an identifier associated with the device on which the licensed software is to be installed or used. Prior to operation of licensed software, a client device requires authorization from a license server. The license server may retrieve a unique identifying device fingerprint from the client device to authorize installation of the software based on a probabilistic comparison of the identifier with stored device identifiers subject to a license. If the comparison yields a match and if total instances of retrieval of the retrieved device fingerprint does not exceed licensed rights, the authorization is granted.

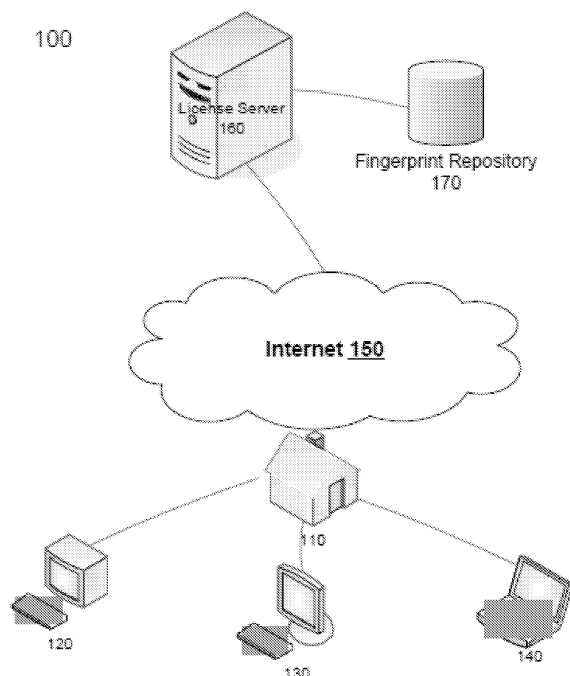


FIG. 1

**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

EP 10 16 5175

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	W0 2009/065135 A1 (UNILOC CORP [US]; RICHARDSON RIC B [US]) 22 May 2009 (2009-05-22) * abstract * * figures 1-4 * * pages 5,7-8 * * pages 15-17 *	1-10	INV. G06F21/00
X	US 6 243 468 B1 (PEARCE DAVID B [US] ET AL) 5 June 2001 (2001-06-05) * abstract * * figures 2,4,5,6 * * column 8 *	1-10	
A	TERENCE SIM ET AL: "Continuous Verification Using Multimodal Biometrics", IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, IEEE SERVICE CENTER, LOS ALAMITOS, CA, US, vol. 29, no. 4, 1 April 2007 (2007-04-01), pages 687-700, XP011168507, ISSN: 0162-8828, DOI: DOI:10.1109/TPAMI.2007.1010 * Section 2 *	1-10	
			TECHNICAL FIELDS SEARCHED (IPC)
			G06F
INCOMPLETE SEARCH The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out. Claims searched completely : Claims searched incompletely : Claims not searched : Reason for the limitation of the search: see sheet C			
Place of search		Date of completion of the search	Examiner
The Hague		20 July 2011	Schäfer, Andreas
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

 1
 EPO FORM 1503 03.82 (P04E07)

Application Number
EP 10 16 5175

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	JUSTIN MUNCASTER ET AL: "Continuous Multimodal Authentication Using Dynamic Bayesian Networks", SECOND WORKSHOP ON MULTIMODAL USER AUTHENTICATION, 1 January 2006 (2006-01-01), XP55003041, * Section 2 *	1-10	
A	----- DE 101 55 755 A1 (SIEMENS AG [DE]) 22 May 2003 (2003-05-22) * paragraph [0010] *	2	
A	----- US 2006/242081 A1 (IVANOV LAZAR [US] ET AL) 26 October 2006 (2006-10-26) * paragraph [0053] *	3	TECHNICAL FIELDS SEARCHED (IPC)
A	----- US 2008/244754 A1 (CURREN EDWARD [US]) 2 October 2008 (2008-10-02) * abstract * * paragraph [0061]; figures 1,2 * -----	2	



**INCOMPLETE SEARCH
SHEET C**

Application Number

EP 10 16 5175

Claim(s) completely searchable:
1-10

Claim(s) not searched:
11-15

Reason for the limitation of the search:

In reply to the invitation to indicate the claims on which the search is to be based, the applicant failed to supply the requested indication in due time.

Thus, the search report has been drawn up on the basis of the first independent claim of each category (Rule 62a(1) EPC):
1 and 7

The applicant's attention is drawn to the fact that the application will be further prosecuted on the basis of subject-matter for which a search has been carried out and that the claims should be limited to that subject-matter at a later stage of the proceedings (Rule 62a(2) EPC).

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 10 16 5175

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-07-2011

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2009065135 A1	22-05-2009	EP 2223256 A1 US 2009138975 A1	01-09-2010 28-05-2009
US 6243468 B1	05-06-2001	US 2001044782 A1	22-11-2001
DE 10155755 A1	22-05-2003	US 2003125975 A1	03-07-2003
US 2006242081 A1	26-10-2006	AU 2005331046 A1 BR PI0520064 A2 CA 2606098 A1 CN 101167072 A EP 1875383 A1 JP 2008539503 A KR 20070122508 A WO 2006115523 A1 ZA 200708860 A	02-11-2006 14-04-2009 02-11-2006 23-04-2008 09-01-2008 13-11-2008 31-12-2007 02-11-2006 25-03-2009
US 2008244754 A1	02-10-2008	US 2009177740 A1	09-07-2009